

CLAIMS

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- data,

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further step of detecting of a start of preamble.

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processes sampled data until the detection of the start of data frame.

counting a sampling clock.

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9. Method according to claims 6 and 7, wherein, the step of counting a sampling clock starts at the same time as the processing step.

10. Method according to claim 6, wherein once a specific data is detected, the step of generating a reference event comprises further steps of:

5 -adding the number of monitored processed sampled data to a predetermined value,

 -generating a reference event when the counted sampling clock equals to the result of adding step.

10 11. Method according to claim 1, wherein the processing step comprises further steps of:

 -reading sampled data into a memory,

 -making a Fast Fourier Transform on read data,

 -correlating the transformed data to a predetermined data,

 -detecting a specific data according to correlating result.

15 12. Method according to claim 11, wherein the correlating step further comprises the step of:

 -detecting the maximum value of correlation,

 -memorizing information related to the maximum value of correlation,

20 -checking if the correlation of next samples is lower than detected maximum value.

 13. Method according to claim 1, the method comprises further steps of:

25 -reading information representing a second clock at the appearance of reference event,

 -reading synchronisation information inserted in received frame,

 -calculating a difference between information,

 -modifying information representing the second clock according to the results of the calculation step.

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 14. Method according to claim 1, the method comprises further

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-reading information representing a second clock at the appearance of reference event.

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-generating an information message on the network the node is connected, containing information representing the results of the subtracting step.

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- transferring said frame of information from the first to the second network.

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sampled data a specific data,

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monitoring steps,

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- reading synchronisation information inserted in received frame

of information from the first network,

- calculating a difference between information,
- synchronising the second network.

16. Apparatus for generating a reference event in a receiving
5 node receiving frames of information, the apparatus comprises:

- sampling means for sampling the frame of information in order to form sampled data,
- processing means for processing sampled data in order to detect among said sampled data a specific data,
- 10 - monitoring means for monitoring the number of processed sampled data until the detection of a specific data,
- generating means for generating a reference event according to the result of monitoring means.

17. Apparatus according to claim 16, wherein the frame of
15 information is constituted of a preamble and a data frame.

18. Apparatus according to claim 17, wherein the apparatus comprises further means of detecting a start of preamble.

19. Apparatus according to claim 17, wherein the specific data is a start of data frame.

20. Apparatus according to claim 19, wherein the processing means processes sampled data until the detection of the start of data frame.

21. Apparatus according to claim 16, further comprising counting means for counting a sampling clock.

22. Apparatus according to claim 18, wherein the means for
25 processing starts to process sampled data a predetermined number of clock samples after the detection of the start of preamble.

23. Apparatus according to claim 18, wherein the means for monitoring starts to monitor processed data a predetermined number of clock samples after the detection of the start of preamble.

24. Apparatus according to claims 21 and 22, wherein, the
30 means for counting a sampling clock starts counting at the same time as the

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25. Apparatus according to claim 21, wherein once a specific data is detected, the means for generating a reference event comprises further means of:

26. Apparatus according to claim 18, wherein the processing means comprises further means of:

27. Apparatus according to claim 26, wherein the correlating means further comprises the means of:

- 25 28. Apparatus according to claim 16, the apparatus comprises
further means of:

- reading means for reading information representing a second clock at the appearance of reference event,
- reading means for reading synchronisation information inserted
- 30 in received frame,
- calculating means for calculating a difference between

-modifying means for modifying information representing the second clock according to the results of the calculation means.

5 comprises further means of:

-reading means for reading synchronisation information inserted in received frame,

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-generating means for generating an information message on the network the node is connected, containing information representing the results of the subtracting step.

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- inserting means for inserting at least said information or calculated information on the basis of said information into the frame of information as the synchronisation information,

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- sampling means for sampling the received frame of information in order to form sampled data,

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- monitoring means for monitoring the number of processed

sampled data until the detection of a specific data,

- generating means for generating a reference event according to the result of monitoring means.

5 - reading means for reading information representing the number of counted clock pulse of the clock of the second network at the appearance of reference event,

- reading synchronisation information inserted in received frame of information from the first network,

10 - calculating means for calculating a difference between read information,

- synchronising means for synchronising the second network.

31. A memory medium for storing a program to be executed in an apparatus for generating a reference event in a receiving node receiving frames of information, the program comprising:

15 - code for sampling the frame of information in order to form sampled data,

- code for processing sampled data in order to detect among said sampled data a specific data,

20 - code for monitoring the number of processed sampled data until the detection of a specific data,

- code for generating a reference event according to the result of monitoring code.

25 32. A program stored in a memory medium in an apparatus for generating a reference event in a receiving node receiving frames of information, the program comprising:

- code for sampling the frame of information in order to form sampled data,

- code for processing sampled data in order to detect among said sampled data a specific data,

30 - code for monitoring the number of processed sampled data until the detection of a specific data,

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- code for generating a reference event according to the result of monitoring code.

33. Apparatus for generating a reference event in a receiving node receiving frames of information, the apparatus comprises:

- 5 – a processor for sampling the frame of information in order to form sampled data, for processing sampled data in order to detect among said sampled data a specific data, for monitoring the number of processed sampled data until the detection of a specific data and for generating a reference event according to the result of monitoring operations .

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